

Prior to examining this application, kindly amend the application as follows:

IN THE CLAIMS

Please cancel claims ~~41-47, 50, 58-59, 64, 70-72, 77-80 and 82-87~~ without prejudice.

Please replace claims 48-49, 51-54, 60-63, 65, 68-69, 73-75 and 81 with amended claims 48-49, 51-54, 60-63, 65, 68-69, 73-75 and 81 as follows:*

48. (Amended) A DNA molecule encoding an antisense-RNA complementary to a transcript of a nucleic acid molecule encoding a protein which is present in plant cells in starch granule-bound form as well as in soluble form, said nucleic acid molecule selected from the group consisting of:
- (a) a nucleic acid molecule encoding a protein with the amino-acid sequence indicated in SEQ ID NO: 2;
 - (b) a nucleic acid molecule comprising the coding region of the nucleotide sequence indicated in SEQ ID NO: 1;
 - (c) a nucleic acid molecule hybridizing to a nucleic acid molecule of (a) or (b);
 - (d) a nucleic acid molecule the sequence of which is degenerate as a result of the genetic code to a nucleic acid molecule of (a) or (b); and

* A "Version Showing Changes Made" is enclosed indicating the amendments to the claims.

- B¹
- (e) a fragment, derivative or allelic variant of a nucleic acid molecule of (a), (b), (c), or (d).

49. (Amended) A DNA molecule encoding an RNA with ribozyme activity which specifically cleaves a transcript of a nucleic acid molecule encoding a protein which is present in plant cells in starch granule-bound form as well as in soluble form, said second nucleic acid molecule selected from the group consisting of:

- B²
- (a) a nucleic acid molecule encoding a protein with the amino-acid sequence indicated in SEQ ID NO: 2;
- (b) a nucleic acid molecule comprising the coding region of the nucleotide sequence indicated in SEQ ID NO: 1;
- (c) a nucleic acid molecule hybridizing to a nucleic acid molecule of (a) or (b);
- (d) a nucleic acid molecule the sequence of which is degenerate as a result of the genetic code to a nucleic acid molecule of (a) or (b); and
- (e) a fragment, derivative or allelic variant of a nucleic acid molecule of (a), (b), (c), or (d).

- Sub C³
- B³
51. (Amended) A vector comprising the DNA molecule according to claim 48 or 49.

52. (Amended) The vector of claim 51, wherein the DNA molecule is operably linked to regulatory elements ensuring transcription in a plant cell.

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Sub Cys
53. (Amended) A host cell comprising the DNA molecule according to claim 48 or 49 or comprising a vector comprising said DNA molecule.

54. (Amended) A transgenic plant cell comprising the DNA molecule according to claim 48 or 49, wherein said DNA molecule is operably linked to regulatory elements ensuring transcription in a plant cell.

Sub Cys
60. (Amended) An RNA molecule obtainable by transcription of the nucleic acid molecule according to claim 48 or 49.

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61. (Amended) A method for producing a transgenic plant cell synthesizing a modified starch comprising the step of reducing in the cell the amount of a protein which is present in the plant cell in starch granule-bound form as well as in soluble form, said protein encoded by a nucleic acid molecule selected from the group consisting of:

- (a) a nucleic acid molecule encoding a protein with the amino-acid sequence indicated in SEQ ID NO: 2;
- (b) a nucleic acid molecule comprising the coding region of the nucleotide sequence indicated in SEQ ID NO: 1;

- (c) a nucleic acid molecule hybridizing to a nucleic acid molecule of (a) or (b);
- (d) a nucleic acid molecule the sequence of which is degenerate as a result of the genetic code to a nucleic acid molecule of (a) or (b); and
- (e) a fragment, derivative or allelic variant of a nucleic acid molecule of (a), (b), (c), or (d)

wherein said reducing results in the plant cell producing a modified starch.

62. (Amended) The method of claim 61 wherein the reduction of the amount of the protein in the cell is caused by an antisense effect.

63. (Amended) The method of claim 61 wherein the reduction of the amount of the protein in the cell is caused by a ribozyme effect.

65. (Amended) The method of any one of claims 61 to 63, wherein the enzyme activity of at least one further enzyme involved in the starch biosynthesis and/or modification is reduced.

68. (Amended) A plant cell obtainable by the method of any one of claims 61 to 63.

69. (Amended) A transgenic plant comprising the plant cell of claim 68.

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69.

73. (Amended) A propagation material of the plant according to claim

74. (Amended) The transgenic plant of claim 69 which is a potato plant.

75. (Amended) A tuber of the potato plant of claim 74.

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81. (Amended) The transgenic plant cell of claim 54 wherein the amount of a protein is reduced in the transgenic plant cell when compared to the wild-type plant cell, wherein the protein is present in the plant cell in starch granule-bound form as well as in soluble form, and wherein the protein is encoded by a nucleic acid molecule selected from the group consisting of:

- (a) a nucleic acid molecule encoding a protein with the amino-acid sequence indicated in SEQ ID NO: 2;
- (b) a nucleic acid molecule comprising the coding region of the nucleotide sequence indicated in SEQ ID NO: 1;
- (c) a nucleic acid molecule hybridizing to a nucleic acid molecule of (a) or (b);
- (d) a nucleic acid molecule the sequence of which is degenerate as a result of the genetic code to a nucleic acid molecule of (a) or (b); and
- (e) a fragment, derivative or allelic variant of a nucleic acid molecule of (a), (b), (c), or (d).

Please add claims 88-95 as follows:

88. (Added) A transgenic plant comprising the plant cell according to claim 54.

89. (Added) A transgenic plant comprising the plant cell according to claim 81.

90. (Added) The transgenic plant of claim 88 which is a potato plant.

91. (Added) The transgenic plant of claim 89 which is a potato plant.

92. (Added) A propagation material of the plant according to claim 88.

93. (Added) A propagation material of the plant according to claim 89.

94. (Added) A tuber of the potato plant of claim 90.

95. (Added) A tuber of the potato plant of claim 91.

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